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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,547	06/20/2003	Masayuki Numao	JP920020102US1	6077	
8813 2591 CAUPADON OFFICE OF IDO TUCHMAN (YOR) 82-70 BEVERLY ROAD			EXAM	EXAMINER	
			TOLENTINO, RODERICK		
KEW GARDENS, NY 11415			ART UNIT	PAPER NUMBER	
			2134		
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			03/19/2008	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) 10/600 547 NUMAO ET AL. Office Action Summary Examiner Art Unit Roderick Tolentino 2134 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 01/04/2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 and 19-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10 and 19-21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on 20 June 2003 is/are: a)⊠ accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

 Claims 1 – 10 and 19 – 21 are pending. Applicant canceled claims 11 – 18 and 22 – 25.

Specification

The lengthy specification has not been checked to the extent necessary to
determine the presence of all possible minor errors. Applicant's cooperation is
requested in correcting any errors of which applicant may become aware in the
specification.

Response to Arguments

- Applicant's arguments with respect to claims 1, 3, 4, 6 10, 20 and 21, have been found to be persuasive. However, in light of Hirano et al. U.S. PG-Publication (2001/0004736) new rejections have been made.
- 4. Applicant's arguments with respect to claim 2 have been found not persuasive.
- 5. Applicant argues that Kawano fails to teach provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content. Examiner respectfully disagrees. Kawano teaches provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content (Kawano, Col.11 Lines 40 57). Kawano demonstrates the transmission of data without the need for recognizing a specific address of a

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destination. It would be obvious to say that a terminal will exist at the destination for the transmission data.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.
- Claims 1, 3, 4, 6 10, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto U.S. Patent No. (6,215,877) in view of Hirano et al. U.S. PG-Publication (2001/0004736).
- 8. As per claims 1, 20 and 21, Matsumoto teaches a key management server for managing secret keys and public keys corresponding to given attribute values and a provider terminal for generating an encrypted content that can be decrypted by said user terminal having said attribute secret keys corresponding to given attributes by means of said public keys (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), wherein said provider terminal distributes said encrypted content and said user terminal decrypts said encrypted content decryptable by means of said attribute secret keys of its own (Matsumoto, Col. 4 Lines 57 67) but fails to teach a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying

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said user terminal. However, in an analogous art Hirans teaches a user terminal for accessing said key management server to obtain attribute secret keys generated based on said secret keys, said attribute secret keys corresponding to attributes identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 9. As per claim 3, Matsumoto teaches user terminal sends a set of attribute values indicating attributes of its own to said key management server; and said key management server generates said attribute secret keys unique to said user terminal based on, among said secret keys managed by said key management server, secret keys corresponding to the attribute values sent from said user terminal and sends said attribute secret keys to said user terminal (Matsumoto, Col. 4 Lines 37 49).
- 10. As per claim 4, Matsumoto as modified teaches a key storage for storing secret keys and public keys corresponding to predetermined attribute values; an attribute secret key generator for obtaining a set of given attribute values and generating attribute secret keys corresponding to said set of attribute values based on secret keys corresponding to said attribute values among said secret keys stored in said key storage (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), and a sending/receiving unit for receiving said set of attribute values from a given user

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terminal and sending said attribute secret keys generated by said attribute secret key generator to said user terminal (Matsumoto, Col. 4 Lines 57 – 67) wherein said attribute values identifying said user terminal (Hirano, Paragraph 0098, key based on user's information).

11. As per claim 6, Matsumoto teaches an encrypted content generator for encrypting said content based on said criteria keys (Matsumoto, Col. 9 Lines 45 – 65) and a sending unit for sending said encrypted content without specifying any recipient of said content via a network (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that can be decrypted by secret keys corresponding to said public keys. However, in an analogous art Hirano teaches a criteria key generator for obtaining public keys corresponding to attribute values indicating attributes of a recipient to which a content is to be sent and using said public keys to generate criteria keys that can be decrypted by secret keys corresponding to said public keys (Hirano, Paragraph 0098, key based on user's information).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

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12. As per claim 7, Matsumoto teaches criteria key generator combines, based on predetermined rules, criteria keys corresponding to the individual attribute values encrypted by using public keys corresponding to said individual attribute values to generate a criteria key for restricting recipients of said content (Matsumoto, Col. 4 Lines 37 – 49).

- 13. As per claim 8, Matsumoto disclose criteria key generator generates a session key for encrypting said content and a criteria key for decrypting said session key; and said encrypted content generator uses said session key to encrypt said content content (Matsumoto, Col. 4 Lines 37 49).
- 14. As per claim 9, Matsumoto teaches a sending/receiving unit for accessing a key management server managing (Matsumoto, Col. 4 Lines 57 67) and a decryptor for obtaining an encrypted content and decrypting said content based on said attribute secret keys (Matsumoto, Col. 11 Lines 2 8) but fails to teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing apparatus, said attribute secret keys being generated based on said secret keys. However, in an analogous art Hirano teaches teach secret keys and public keys corresponding to given attribute values to receive attribute secret keys corresponding to attributes established for identifying said information processing apparatus, said attribute secret keys being generated based on said secret keys (Hirano, Paragraph 0098, key based on user's information).

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Hirano's method for facilitating legitimate use of digital content with Matsumoto's key management server and chat system because it offers the advantage of protecting computerized data from unauthorized access (Hirano, Paragraph 0006).

- 15. As per claim 10, Matsmoto teaches sending/receiving unit sends a set of attribute values established for said information processing apparatus to said key management server and receives said attribute secrete keys generated based on said set of attribute values from said key management server (Matsumoto. Col. 4 Lines 37 49).
- Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication
 (2001/0004736), as applied to claim 1 and in further view of Kawano et al. U.S. Patent
 No. (5,933,605).
- 17. As per claim 2, Matsumoto fails to teach provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content. However, in an analogous art Kawano teaches provider terminal distributes said encrypted content without specifying said user terminal that is to receive said encrypted content (Kawano, Col.11 Lines 40 57).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Kawano's apparatus for filtering multicast messages with Matsumoto's key management server and chat system because it offers the advantage

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of have the data receiving operation that is not dependent on an expansion system (Kawano, Col.11 Lines 40 - 57).

- Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Matsumoto U.S. Patent No. (6,215,877) and Hirano et al. U.S. PG-Publication
 (2001/0004736), and in view of Applicant Admittance Prior Art (hereafter AAPA).
- 19. As per claim 5, Matsumoto in view of Hirano fails to teach attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer protocol. However, attribute secret key generator generates said attribute secret keys by using a protocol implementing oblivious transfer is taught by applicant on pages 14 and 15. The specification describes oblivious transfer protocol, in order to be used secretly obtain attribute secret keys.
- Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over
 Matsumoto U.S. Patent No. (6,215,877) in view of Applicant Admittance Prior Art (hereafter AAPA) and Mooney et al. U.S. Patent No. (5,610,981).
- 21. As per claim 19, Matsumoto teaches generating n secret keys and n public keys corresponding to said secret keys and storing said secret keys and public keys in a given storage, obtaining information about k (<=n) secret keys selected at random by a given client from among said n secret keys stored in said storage; reading said k secret keys corresponding to information about the obtained secret keys from said storage (Matsumoto, Col. 2 Lines 60 67 and Col. 3 Lines 1 5), and providing said generated

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decryption keys to said client (Matsumoto, Col. 4 Lines 57 – 67) but fails to teach using a protocol for implementing oblivious transfer to generate decryption keys for decrypting information encrypted with said k public keys corresponding to the k secret keys and wherein n is the number of secret keys and public keys, and k is the number of the secret keys selected at random by the given client. However, teach using a protocol for implementing oblivious transfer to generate decryption keys for decrypting information encrypted with said k public keys corresponding to the k secret keys is taught by applicant on pages 14 and 15. The specification describes oblivious transfer protocol, in order to be used secretly obtain attribute secret keys. Further, in an analogous art Mooney teaches wherein n is the number of secret keys and public keys, and k is the number of the secret keys selected at random by the given client (Mooney, Col. 14 Lines 36 – 50).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use Mooney's preboot protection for a data security system with Matsumoto's key management server and chat system because it offers the advantage of securing physical access to a computer system (Mooney, Col. 1 Lines 31 - 37).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Tolentino whose telephone number is (571) 272-2661. The examiner can normally be reached on Monday - Friday 9am to 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Zand can be reached on (571) 272-3811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roderick Tolentino Examiner Art Unit 2134

Roderick Tolentino /R. T./ Examiner, Art Unit 2134

/Kambiz Zand/

Supervisory Patent Examiner, Art Unit 2134